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ABSTRACT OF THE DISCLOSURE

Extendible exhaust nozzle bell for rocket engine of aircraft or spacecraft includes first part featuring quasi-conical shape with smaller diameter fixedly arranged on motor of engine and a second part featuring a quasi-conical shape with greater diameter flexibly arranged with respect to first part. Extension mechanism for extending second part from stowed position into operating position has several swiveling extension arms, distributed over circumference of bell and coupled between first and second part, which are hingedly connected at a first end to a support structure outside of first part of the exhaust nozzle bell and at a second end in a displaceable manner relative to inside of second part that can be swiveled while reducing the radial distance of second end to first part. Second part can be extended into rear operating position during swiveling of extension arms to first part following quasi-conical shape of second part.